

Serial. No. 09/911,051

IN THE CLAIMS:

1. (Currently amended)

~~The A-medical device of claim 13, for long term implantation comprising:~~

~~a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~

~~a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said medical device,~~

~~wherein said medical device is a urine contacting device, adapted for long term implantation within the body of a patient.~~

2. (Currently amended) The A-medical device of claim 34, wherein said for long term implantation comprising:

~~a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~

~~a surfactant region comprising comprises a biosurfactant, said surfactant region disposed over said reservoir at an outer surface of said medical device,~~

~~wherein said medical device is adapted for long term implantation within the body of a patient.~~

3. (Original) The medical device of claim 2, wherein said biosurfactant is selected from glycolipids, lipopeptides, depsiptides, phospholipids, substituted fatty acids, and lipopolysaccharides.

4. (Original) The medical device of claim 2, wherein said biosurfactant is selected from surlactin, surfactin, visconsin and rhamnolipids.

5. (Currently amended) The medical device of ~~claim 1~~ claim 34, wherein said surfactant is a surfactant polymer.

Serial. No. 09/911,051

6. (Previously presented) The medical device of claim 5, wherein said surfactant polymer is a surfactant polymer having a poly(vinyl amine) backbone and having hydrophilic poly(ethylene oxide) and hydrophobic hexanal side chains.
7. (Currently amended) The A-medical device of claim 34, for long term implantation comprising:
 - ~~a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~
 - ~~a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said medical device,~~
 - ~~wherein said medical device is adapted for long term implantation within the body of a patient, and~~
 - wherein said surfactant is linked to said outer surface by one or more interactions selected from hydrophobic interactions, ionic interactions and covalent interactions.
8. (Currently amended) A- ~~The medical device of claim 34, for long term implantation comprising:~~ (1) ~~a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~ (2) ~~a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said device,~~ wherein said medical device is selected from a ureteral stent and a urethral catheter.
9. (Currently amended) The medical device of ~~claim 1~~ claim 34, wherein said antimicrobial agent is selected from triclosan, chlorhexidine, silver sulfadiazine, silver ions, benzalkonium chloride and zinc pyrithione.
10. (Currently amended) The medical device of ~~claim 1~~ claim 34, wherein said antimicrobial agent is a broad-spectrum antibiotic.

Serial. No. 09/911,051

11. (Currently amended) The medical device of ~~claim 1~~ claim 34, wherein said antimicrobial agent is an antiseptic agent.
12. (Previously presented) The medical device of claim 11, wherein said antiseptic agent is iodine.
13. (Previously presented) A medical device for long-term implantation comprising: (1) a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long-term release of said antimicrobial agent from said polymer matrix; (2) a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said device; and (3) a barrier layer disposed between said polymer matrix and said surfactant region.
14. (Currently amended) ~~A. The medical device of claim 34, wherein said for long-term implantation comprising: (1) a reservoir comprising (a) a polymer matrix comprising comprises a polymer selected from an ethylene-vinyl acetate copolymer and a polyurethane, and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long-term release of said antimicrobial agent from said polymer matrix; and (2) a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said device.~~
15. (Currently amended) A method of treatment comprising:
providing ~~the a-urine contacting medical device of claim 34, said urine-contacting medical device comprising (a) a reservoir comprising a polymer matrix and an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long-term release of said antimicrobial agent from said polymer matrix and (b) a surfactant region comprising a surfactant, said surfactant region disposed over said reservoir at an outer surface of said device; and~~

Serial. No. 09/911,051

implanting said urine contacting medical device within the body of a patient for a period of at least three months.

16. (Original) The method of claim 15, wherein said surfactant is a biosurfactant.

17. (Original) The method of claim 15, wherein said surfactant is a surfactant polymer.

18. (Canceled)

19. (Original) The method of claim 15, wherein said polymer matrix comprises a polymer selected from an ethylene-vinyl acetate copolymer and a polyurethane.

20. (Canceled)

21. (Currently amended) A method of constructing ~~a~~ the medical device of claim 34, comprising:

~~forming a said reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~

~~providing a surfactant region comprising a surfactant over said reservoir at an outer surface of said medical device,~~

~~wherein said medical device is a urine contacting device adapted for long term implantation within the body of a patient.~~

22. (Currently amended)

A- The method of claim 21, constructing a medical device comprising:

~~forming a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long term release of said antimicrobial agent from said polymer matrix; and~~

~~providing a surfactant region comprising a surfactant over said reservoir at an outer surface of said device,~~

Serial. No. 09/911,051

~~wherein said medical device is adapted for long-term implantation within the body of a patient;~~

~~and wherein said antimicrobial agent is disposed within said polymer matrix at the time of formation of said polymer matrix.~~

23. (Original) The method of claim 22, wherein said antimicrobial agent is co-cast with said polymer matrix.

24. (Original) The method of claim 22, wherein said antimicrobial agent is co-extruded with said polymer matrix.

25. (Original) The method of claim 21, wherein said antimicrobial agent is provided within said polymer matrix by imbibing said antimicrobial agent into said polymer matrix.

26. (Original) The method of claim 21, wherein said surfactant is a biosurfactant.

27. (Original) The method of claim 21, wherein said surfactant is a surfactant polymer.

28. (Original) The method of claim 21, wherein said surfactant is covalently linked at said outer surface of said device.

29. (Currently amended)

~~The A method of claim 21, constructing a medical device comprising:~~

~~forming a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent disposed within said polymer matrix, said reservoir adapted for long-term release of said antimicrobial agent from said polymer matrix; and~~

~~providing a surfactant region comprising a surfactant over said reservoir at an outer surface of said device;~~

~~wherein said medical device is adapted for long-term implantation within the body of a patient;~~

Serial. No. 09/911,051

~~and~~ wherein said antimicrobial agent is selected from triclosan, chlorhexidine, silver sulfadiazine, silver ions, benzalkonium chloride and zinc pyrithione.

30. (Canceled)

31. (Currently amended) The medical device of ~~claim 7~~ claim 13, wherein said medical device is a blood contacting medical device.

32. (Currently amended) The medical device of ~~claim 1~~ claim 13, wherein said medical device consists of an annular reservoir and an annular surfactant region disposed over an outer surface of said reservoir.

33. (Currently amended) The method of ~~claim 15~~ claim 13, wherein said medical device is selected from a ureteral stent and a urethral catheter.

34. (Currently amended) ~~The medical device of claim 1~~ A medical device comprising:
a reservoir comprising (a) a polymer matrix and (b) an antimicrobial agent
disposed within said polymer matrix, said reservoir adapted for long-term release of said
antimicrobial agent from said polymer matrix; and
a surfactant region comprising a surfactant, said surfactant region disposed over
said reservoir at an outer surface of said medical device,
wherein said ~~medical device comprises a reservoir that is not a coating layer on~~
said medical device, and
wherein said medical device is a urine contacting device adapted for long-term
implantation within the body of a patient.

35. (Currently amended) The medical device of ~~claim 1~~ claim 34, wherein said reservoir is in the form of a tubular medical device component, and wherein said surfactant region is provided in the form of a layer disposed over said reservoir.

Serial. No. 09/911,051

36. (Previously presented) The medical device of claim 35, wherein said tubular medical device component is selected from a stent body and a catheter tube.